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Role of stoma effluent on adhesion between skin-friendly adhesives and skin

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When ileostomists experience leakage, the stoma effluent propagates between the adhesive and the skin. The effluent is aggressive towards skin resulting in redness and irritation. It is hypothesized that the output alters chemical and mechanical properties of skin weak adhesion. Additionally, the effluent seems to alter the intrinsic characteristics of the adhesive resulting in poor overall performances. To study these effects, a skin model is used as a substrate and is exposed to artificial output. Thus, the aim of this work is to further investigate the role of output in reducing adhesion between the adhesive and the stratum corneum (outermost layer of the epidermis).